VideoEase CATV Balun

Coax to UTP Balun for CATV TV

Overview
The VideoEase CATV Balun allows traditional 75-ohm coaxial cable to be replaced by one-pair UTP in the CATV, VHF and FM environments in certain applications. Used in pairs, the CATV Balun allows broadband CATV equipment to be integrated into structured cabling systems thereby allowing CATV equipment to be moved or added to any convenient modular wall outlet.

The VideoEase CATV Balun provides a versatile cabling solution for broadband video systems used by schools, government, corporations, hospitals, financial institutions, hotels and convention centres. The CATV Balun works in conjunction with CATV splitters, amplifiers and cable modems for a total cabling solution.

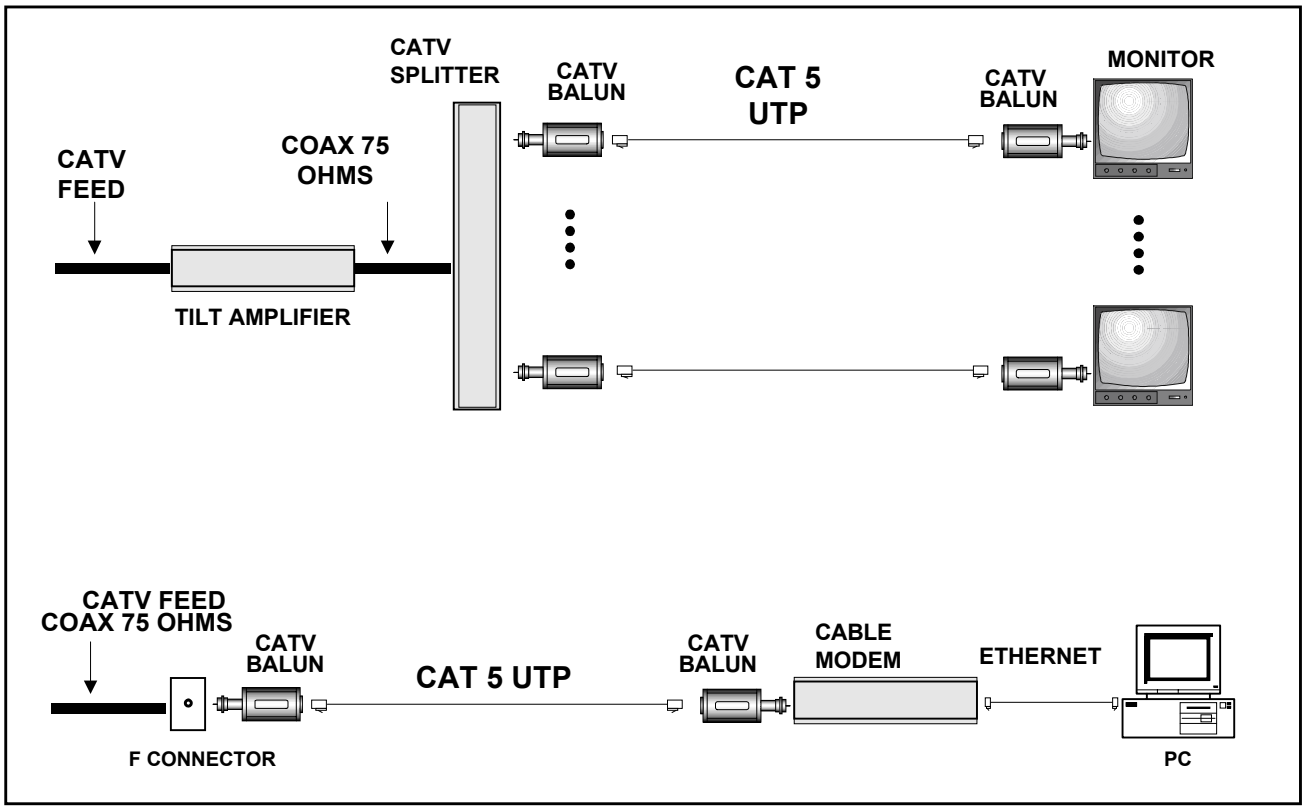
Benefits
Cost savings - eliminate costly coaxial cable
Less down time - quicker moves, adds and changes
Neater wiring

Features
Low return loss eliminates “ghosting”
Compact design
Lifetime warranty

Specifications	
Environment:	Broadband CATV, VHF and FM.
Devices:	CATV, satellite receivers, VCR and other broadband video equipment.
Transmission:	Transparent to the user
Bandwidth:	5 MHz to 550 MHz.
Video Channels Supported:	CATV 2-61, VHF channels 2-13, FM broadcast band.
Insertion Loss:	Less than 3dB for CATV channels 2-61
Return Loss:	-18dB or higher at 10 MHz to 550 MHz
Common Mode Rejection (CMMR):	-20dB or higher at 40 MHz to 500 MHz.
Cable – UTP:	24-AWG or lower solid copper twisted pair. Impedance: 100-120-ohms
Cable – Coax:	Impedance: 75-ohms at 1Mhz (RG6)
Connector – Input:	F connector - male
Connector - Output:	RJ45 - female
RJ45 Pin Configuration:	RJ45 Pins 7&8.
Maximum distance:	Up to 100m (330ft) via Cat 5 UTP depending on frequency. May require tilt amplifiers at higher frequencies
Temperature:	Operating: 0 to 40°C. Storage: -10 to 70°C
Humidity:	Maximum 95% (non-condensing)
Dimensions:	2” x 1” diameter (5.08 x 2.54 cm diameter)
Warranty:	Lifetime
Order Information	500006 VideoEase CATV Balun, F-male, RJ45 P7&8

Typical Application:

In a point-to-point scenario for CATV (superband and hyperband), VHF and FM, cable lengths of up to 50 meters may be achieved without amplification if the nominal input is about 15dB. In some applications, a tilt amplifier may be required since the UTP losses are higher than coax at the higher frequencies. Linear gain compensation of up to 20-25dB at 750MHz is usually adequate. Conversely, if amplification is used to compensate for losses at higher frequencies and long distances, it may be necessary to attenuate the lower frequency, shorter distance signals to avoid over-driving the TV monitors.



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